What is claimed is:

- 1. A compound 8 to 50 nucleobases in length targeted to a nucleic acid molecule encoding Toll-like receptor 4, wherein said compound specifically hybridizes with said nucleic acid molecule encoding Toll-like receptor 4 and inhibits the expression of Toll-like receptor 4.
- 2. The compound of claim 1 which is an antisense oligonucleotide.
- 3. The compound of claim 2 wherein the antisense oligonucleotide has a sequence comprising SEQ ID NO: 10, 11, 12, 16, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, and 33.
- 4. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.
- 5. The compound of claim 4 wherein the modified internucleoside linkage is a phosphorothicate linkage.
- 6. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified sugar moiety.
- 7. The compound of claim 6 wherein the modified sugar moiety is a 2'-O-methoxyethyl sugar moiety.
- 8. The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified nucleobase.
- 9. The compound of claim 8 wherein the modified nucleobase is a 5-methylcytosine.
- 10. The compound of claim 2 wherein the antisense oligonucleotide is a chimeric oligonucleotide.
- 11. A compound 8 to 50 nucleobases in length which specifically hybridizes with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding Toll-like receptor 4.
- 12. A composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier or diluent.

- 13. The composition of claim 12 further comprising a colloidal dispersion system.
- 14. The composition of claim 12 wherein the compound is an antisense oligonucleotide.
- 15. A method of inhibiting the expression of Toll-like receptor 4 in cells or tissues comprising contacting said cells or tissues with the compound of claim 1 so that expression of Toll-like receptor 4 is inhibited.
- 16. A method of treating an animal having a disease or condition associated with Toll-like receptor 4 comprising administering to said animal a therapeutically or prophylactically effective amount of the compound of claim 1 so that expression of Toll-like receptor 4 is inhibited.
- 17. The method of claim 16 wherein the condition is an inflammatory disorder.
- 18. The method of claim 16 wherein the condition involves an immune response.
- 19. The method of claim 18 wherein the immune response is a Th1 response.
- 20. The method of claim 18 wherein the immune response is a Th2 response.